



US009758784B1

(12) **United States Patent**
Giese et al.(10) **Patent No.:** **US 9,758,784 B1**(45) **Date of Patent:** ***Sep. 12, 2017**(54) **INTERFERING RNA MOLECULES**(71) Applicant: **Silence Therapeutics GMBH**, Berlin
(DE)(72) Inventors: **Klaus Giese**, Berlin (DE); **Jörg Kaufmann**, Berlin (DE); **Anke Klippel-Giese**, Berchtesgaden (DE)(73) Assignee: **Silence Therapeutics GMBH**, Berlin
(DE)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **15/589,971**(22) Filed: **May 8, 2017****Related U.S. Application Data**

(63) Continuation of application No. 14/977,710, filed on Dec. 22, 2015, which is a continuation of application No. 14/578,636, filed on Dec. 22, 2014, now Pat. No. 9,222,092, which is a continuation of application No. 13/692,178, filed on Dec. 3, 2012, now Pat. No. 8,933,215, which is a continuation of application No. 12/986,389, filed on Jan. 7, 2011, now Pat. No. 8,324,370, which is a continuation of application No. 12/200,296, filed on Aug. 28, 2008, now Pat. No. 7,893,245, which is a continuation of application No. 10/633,630, filed on Aug. 5, 2003, now Pat. No. 7,452,987.

(60) Provisional application No. 60/402,541, filed on Aug. 12, 2002.

(30) **Foreign Application Priority Data**Aug. 5, 2002 (EP) 02017601
Apr. 10, 2003 (EP) 03008383(51) **Int. Cl.**
C07H 21/04 (2006.01)
C12N 15/113 (2010.01)(52) **U.S. Cl.**
CPC **C12N 15/113** (2013.01); **C12N 15/1137** (2013.01); **C12Y 207/11001** (2013.01); **C12N 2310/14** (2013.01); **C12N 2310/321** (2013.01); **C12N 2310/322** (2013.01); **C12N 2310/531** (2013.01); **C12N 2320/51** (2013.01)(58) **Field of Classification Search**
None
See application file for complete search history.(56) **References Cited****U.S. PATENT DOCUMENTS**4,217,294 A 8/1980 Petty
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Primary Examiner — Kimberly Chong(74) *Attorney, Agent, or Firm* — Morrison & Foerster
LLP(57) **ABSTRACT**

The present invention is related to a ribonucleic acid comprising a double stranded structure whereby the double-stranded structure comprises a first strand and a second strand, whereby the first strand comprises a first stretch of contiguous nucleotides and whereby said first stretch is at least partially complementary to a target nucleic acid, and the second strand comprises a second stretch of contiguous nucleotides whereby said second stretch is at least partially identical to a target nucleic acid, and whereby the double stranded structure is blunt ended.

24 Claims, 29 Drawing Sheets